

YOU ARE NOT A L O N E

MORE THAN 25 MILLION PATIENTS HAVE BEEN TREATED WITH VENOFER®



Venofer[®] is indicated for the treatment of iron deficiency anemia (IDA) in adult and pediatric (2 years of age and older) patients with chronic kidney disease (CKD), and is administered only by or under the supervision of your healthcare provider. You should not receive Venofer if you have known allergies to iron sucrose. Notify your healthcare provider of all medical conditions and any medications, including supplements you are taking.

Please see additional Important Safety Information on pages 10 and 11 and accompanying Full Prescribing Information.

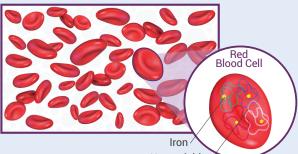
ABOUT IRON DEFICIENCY ANEMIA (IDA)

This brochure will give you information about IDA in adult and pediatric (2 years of age and older) patients with CKD. You'll learn about the challenges of oral iron supplements and about another treatment option you may want to discuss with your doctor.

What is IDA?

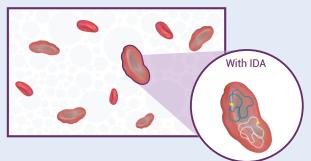
IDA is very common in people with CKD.

Normal red blood cell count with a healthy level of oxygen-carrying hemoglobin:



Hemoglobin

IDA is a condition in which you have fewer red blood cells and less hemoglobin inside each cell:



Iron and hemoglobin are important to your body's functioning.

- Iron is a key ingredient used in your bone marrow to build healthy new red blood cells
- Hemoglobin is the part of the red blood cell that contains iron and carries oxygen throughout the body
- Over time, untreated IDA can cause health problems, including heart problems. If you already have heart problems, it can make those problems worse





What are the common symptoms of iron deficiency anemia?

If you have mild anemia, your symptoms may include:

- Fatigue or tiredness
- Trouble concentrating
- Frequent headaches, dizziness or lightheadedness
- Weakness

If you have more severe anemia, your symptoms may also include:

- Shortness of breath
- Strange cravings to eat items that aren't food such as dirt, ice or clay
- Fast heartbeat
- Cold hands and feet

- Pale skin
- A tingling or crawling feeling in the legs
- Brittle nails
- A blue tint to the whites of your eyes

Why did the doctor prescribe IV iron?

Oral iron supplements are a common treatment for IDA; however, side effects often prevent people from taking them for long enough to see an improvement.

- These side effects may include constipation, abdominal pain, diarrhea and nausea
- Some people also have trouble absorbing iron from oral supplements, which means it may not work as intended, or it may not work at all
- An intravenous (IV) iron injection can help ensure that your body is getting the iron it needs
 - Please discuss the possible risks associated with taking an IV iron injection with your healthcare provider

What is Venofer[®] (iron sucrose injection)?

Venofer is an IV iron that is proven to treat IDA in adult and pediatric patients (2 years and older) with CKD.

- Venofer contains iron, which is a key ingredient for making new red blood cells. Iron is also necessary for your bone marrow to build healthy new red blood cells and provide oxygen to your organs and tissues
- If you or your child has been prescribed Venofer, it is likely that there is not enough iron in the body
- If you are iron deficient, raising your iron levels may help to increase your red blood cell and hemoglobin levels



SELECTED IMPORTANT SAFETY INFORMATION

Venofer[®] (iron sucrose injection, USP) is available by prescription only. Ask your doctor or healthcare provider if Venofer is the right choice.

What is Venofer? Venofer® (iron sucrose injection, USP) is indicated for the treatment of iron deficiency anemia (IDA) in adult and pediatric (2 years of age and older) patients with chronic kidney disease (CKD), and is administered only by or under the supervision of your healthcare provider. The dosing for iron replacement treatment in pediatric patients less than 2 years old with Peritoneal or Hemodialysis-Dependent CKD or Non-Dialysis-Dependent CKD have not been established.



How does Venofer[®] (iron sucrose injection) work?

Venofer works by providing iron to help your body build healthy new red blood cells. Your doctor will be able to see how it is working by reviewing blood tests such as:

Hemoglobin

This is the protein in red blood cells that carries oxygen from the lungs to your tissues and carries carbon dioxide from the tissues back to your lungs



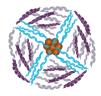


Red blood cell count

Your red blood cells contain hemoglobin and are produced in your bone marrow

Ferritin

This is a protein that contains stored iron in your cells





Transferrin saturation (TSAT)

Transferrin is a protein that takes the iron from the storage protein (ferritin), or the iron that you're being treated with, and brings it to the bone marrow, where it is used to build healthy red blood cells

ABOUT TAKING VENOFER®

How will I know if Venofer[®] (iron sucrose injection) is working?



Common lab markers for monitoring IDA and normal values in adults*

Your doctor prescribed Venofer to help restore your blood test results to their normal ranges.

	Male	Female
Hemoglobin (Hb)	13.8-17.2 g/dL	12.1-15.1 g/dL
Ferritin	12-300 ng/mL	12-150 ng/mL
Transferrin saturation (TSAT)	20%-50%	20%-50%

*Normal values can vary for many reasons, including conditions you may have or where your lab work was done. That's why it's important to discuss your lab results with your doctor to find out what they mean for you.

How and where will I get Venofer?

You'll get Venofer through an intravenous injection (IV) at your doctor's office, a hospital, or an infusion center.

 Depending on your doctor's instructions and other treatments you receive, you may need to go back for several treatments with Venofer



• Even if you start feeling better, it is important to come back for all your scheduled Venofer treatments as prescribed by your doctor so that your body can continue rebuilding your red blood cells

SELECTED IMPORTANT SAFETY INFORMATION (cont'd)

You should not receive Venofer if you have known allergies to iron sucrose. Notify your healthcare provider of all medical conditions and any medications, including supplements you are taking. There may be risks to the mother and fetus associated with untreated IDA in pregnancy.





What side effects could occur with Venofer[®] (iron sucrose injection)?

Possible side effects with Venofer:



Your doctor will monitor you during administration and for 30 minutes after your Venofer infusion as serious side effects such as allergic reaction, low blood pressure, loss of consciousness and/or collapse could occur



In adults 18 years and older, the most common side effects include diarrhea, upset stomach, throwing up, headache, dizziness, a temporary drop in blood pressure, itching, pain in extremity, joint pain, back pain, muscle cramp, injection site reactions, chest pain and swelling of the arms and legs



In pediatric patients 2 to 17 years old, the most common side effects are headache, viral respiratory tract infection, inflammation of the lining of the abdomen, upset stomach, throwing up, fever, dizziness, cough, blood clots in arteries, a temporary drop in blood pressure and a temporary increase in blood pressure

You should avoid taking certain supplements if you are taking Venofer.



- You should not take iron supplements by mouth if you are receiving Venofer
- Tell your doctor about all the medicines you take, including prescription and nonprescription medicines, vitamins and herbal supplements

ABOUT VENACCESS™

How can I get assistance with paying for Venofer[®] (iron sucrose injection)?



American Regent, Inc., created VenAccess™ to provide assistance in receiving Venofer for eligible patients who are uninsured and do not have the financial resources to pay for this medicine.

For more information about coverage or the VenAccess™ program, please contact:

IV IRON REIMBURSEMENT HOTLINE 1-877-4-IV-IRON (1-877-448-4766)

Monday through Friday, between 9:00 AM and 8:00 PM ET



It's easy to find out if you qualify for VenAccess™.

Patient or Provider

Enroll

- Download the form and bring it to your healthcare provider's office, or call our IV Iron Reimbursement Hotline at 1-877-4-IV-IRON (1-877-448-4766) to see if you are eligible
- Your healthcare provider can simply submit your form or call the hotline to enroll you on your behalf

Confirm

 You and your healthcare provider will be notified by email of your enrollment or denial

Provider

Administer

 If approved, your healthcare provider will administer Venofer[®] (iron sucrose injection) for free and will handle the forms required by American Regent, Inc.

Re-enroll

• Your healthcare provider will ensure you stay enrolled in the program if you continue to need assistance

IMPORTANT SAFETY INFORMATION

Venofer[®] (iron sucrose injection, USP)

IMPORTANT SAFETY INFORMATION

Venofer[®] (iron sucrose injection, USP) is available by prescription only. Ask your doctor or healthcare provider if Venofer is the right choice for you.

What is Venofer? Venofer® (iron sucrose injection, USP) is indicated for the treatment of iron deficiency anemia (IDA) in adult and pediatric (2 years of age and older) patients with chronic kidney disease (CKD), and is administered only by or under the supervision of your healthcare provider. The dosing for iron replacement treatment in pediatric patients less than 2 years old with Peritoneal or Hemodialysis-Dependent CKD or Non-Dialysis-Dependent CKD have not been established.

You should not receive Venofer if you have known allergies to iron sucrose. Notify your healthcare provider of all medical conditions and any medications, including supplements you are taking. There may be risks to the mother and fetus associated with untreated IDA in pregnancy.

WARNINGS/CAUTIONS: Serious hypersensitivity reactions, including anaphylactic-type reactions (itching, hives, swelling, wheezing, difficulty breathing, fainting and/or other allergy symptoms), some of which have been life threatening and fatal, have happened in patients receiving Venofer. Venofer may cause significant hypotension (decreased blood pressure). Your healthcare provider will watch you closely for 30 minutes after each dose.

Call your healthcare provider or get medical help right away if you have symptoms of an allergic reaction, including but not limited to rash, chest pain, cough, dizziness, passing out, shortness of breath, sweating or throat tightness.





Excessive amounts of Venofer may lead to a condition called iron overload, which may be harmful.

All patients receiving Venofer require periodic blood tests to monitor the amount of iron in the blood. Venofer may reduce the absorption of iron preparations taken by mouth.

Notify your healthcare provider if you are pregnant, or planning to get pregnant or breastfeeding.

SIDE EFFECTS: In adult patients, the most common side effects (≥2%) include diarrhea, upset stomach, throwing up, headache, dizziness, hypotension, pruritus (itching), pain in extremity, arthralgia (joint pain), back pain, muscle cramp, injection site reactions, chest pain and peripheral edema (swelling).

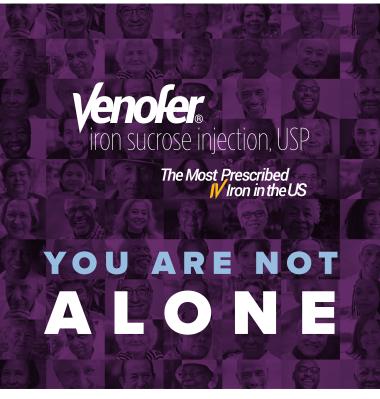
In pediatric patients the most common side effects (≥2%) are headache, viral respiratory tract infection, peritonitis, upset stomach, throwing up, fever, dizziness, cough, arteriovenous fistula thrombosis, hypotension and hypertension (increased blood pressure).

These are not all the side effects that may occur; contact your healthcare provider if you have questions.

Potential injection site discoloration has happened. Notify your healthcare provider of any irritation at the injection site.

The information provided is not intended to replace your healthcare provider's medical advice. For additional information, contact your healthcare provider.

You are encouraged to report side effects to American Regent, Inc. at 1-800-734-9236, or to the FDA by visiting www.fda.gov/medwatch or calling 1-800-FDA-1088.



Venofer® (iron sucrose injection) is available by prescription only. Ask your doctor or healthcare provider if Venofer is right for you.



To learn more about Venofer or VenAccess™, or for Full Prescribing Information, please visit

Venofer.com

"More than 25 million patients have been treated with Venofer" is calculated based on an estimated annual cumulative dose. Data on file, American Regent, Inc.

Millions prescribed. Millions treated.™

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HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use VENOFER® safely and effectively. See full prescribing information for VENOFER.

Venofer (iron sucrose) injection, for intravenous use Initial U.S. Approval: 2000

--- INDICATIONS AND USAGE ---Venofer is an iron replacement product indicated for the treatment of iron deficiency anemia (IDA) in patients with chronic kidney disease (CKD). (1) -DOSAGE AND ADMINISTRATION

Population		Dose
Adult patients	Hemodialysis Dependent- Chronic Kidney Disease (HDD-CKD) (2.2)	100 mg slow intravenous injection or infusion
	Non-Dialysis Dependent- Chronic Kidney Disease (NDD-CKD) (2.3)	200 mg slow intravenous injection or infusion
	Peritoneal Dialysis Dependent-Chronic Kidney Disease (PDD-CKD) (2.4)	300 mg or 400 mg intravenous infusion
Pediatric patients	HDD-CKD (2.5), PDD-CKD or NDD-CKD (2.6)	0.5 mg/kg slow intravenous injection or infusion

--DOSAGE FORMS AND STRENGTHS --

- Injection: 50 mg/2.5 mL, 100 mg/5 mL, or 200 mg/10 mL (20 mg/mL) in single-dose vials. (3) -CONTRAINDICATIONS
- Known hypersensitivity to Venofer. (4)
- ----WARNINGS AND PRECAUTIONS ----Hypersensitivity Reactions: Observe for signs and symptoms of hypersensitivity during and after Venofer administration for at least 30 minutes and until clinically stable following completion of each administration. Only administer Venofer when personnel and therapies are immediately available for the treatment of serious hypersensitivity reactions. (5.1)
- Hypotension: May cause hypotension. Monitor for signs and symptoms of hypotension during and following each administration. (5.2) Iron Overload: Regularly monitor hematologic responses during therapy. Do not administer to patients with iron

overload. (5.3) -----ADVERSE REACTIONS -----

Adult patients: The most common adverse reactions (\geq 2%) are diarrhea, nausea, vomiting, headache, dizziness, hypotension, pruritus, pain in extremity, arthralgia, back pain, muscle cramp, injection site reactions, chest pain, and peripheral edema. (6.1)

Pediatric patients: The most common adverse reactions (≥2%) are headache, respiratory tract viral infection, peritonitis, vomiting, pyrexia, dizziness, cough, nausea, arteriovenous fistula thrombosis, hypotension, and hypertension. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact American Regent, Inc. at 1-800-734-9236 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION

Revised: 9/2020

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FULL PRESCRIBING INFORMATION

INDICATIONS AND USAGE

Venofer is indicated for the treatment of iron deficiency anemia (IDA) in patients with chronic kidney disease (CKD). DOSAGE AND ADMINISTRATION

Mode of Administration

2.1 Adr ofer only intravenously by slow injection or by infusion. The dosage of Venofer is expressed in mg of elemental iron. Each mL contains

2.2 Adult Patients with Hemodialysis Dependent-Chronic Kidney Disease (HDD-CKD) Administer Venofer 100 mg undiluted as a slow intravenous injection over 2 to 5 minutes, or as an infusion of 100 mg diluted in a maximum of 100 mL of 0.9% NaCl over a period of at least 15 minutes, per consecutive hemodialysis session [see How Supplied/Storage and Handling (16.2)]. Administer Venofer early during the dialysis session (generally within the first hour). The usual total treatment course of Venofer is 1000 mg. Venofer treatment may be repeated if iron deficiency reoccurs.

Adult Patients with Non-Dialysis Dependent-Chronic Kidney Disease (NDD-CKD) 2.3

2.3 Audit Fattenis with Your-Urarysis Dependent-Chronic KiONEY Disease (NUD-CKU) Administer Venofer 200 mg undiluted as a slow intravenous injection over 2 to 5 minutes or as an infusion of 200 mg in a maximum of 100 mL of 0.9% NaCl over a period of 15 minutes. Administer on 5 different occasions over a 14 day period. There is limited experience with administration of an infusion of 500 mg of Venofer, diluted in a maximum of 250 mL of 0.9% NaCl, over a period of 3.5 to 4 hours on Day 1 and Day 14 *[see How Supplied/Storage and Handling (16.2)]*. Venofer treatment may be repeated if iron deficiency reoccurs.
2.4 Adult Patients with Peritoneal Dialysis Dependent-Chronic Kiney Disease (PDD-CKD) Administer Venofer in 3 divided doses given by claw intravenous influeion within a 29 day period 2 infusions each of 200 ms with 4.5 hours of 5.5 hours

Administer Venofer in 3 divided doses, given by slow intravenous infusion, within a 28 day period: 2 infusions each of 300 mg over 1.5 hours 14 days apart followed by one 400 mg infusion over 2.5 hours 14 days later. Dilute Venofer in a maximum of 250 mL of 0.9% NaCl [see How Supplied/Storage and Handling (16.2)]. Venofer treatment may be repeated if iron deficiency reoccurs.

 Padaling (16.2); venoter treatment thay be repeated in itorit denoteincy resources.
 Pediatric Patients (2 Years of Age and Older) with HDD-CKD for Iron Maintenance Treatment
 For iron maintenance treatment: Administer Venoter at a dose of 0.5 mg/kg, not to exceed 100 mg per dose, every two weeks for 12 weeks given undiluted by slow intravenous injection over 5 minutes or diluted in 0.9% NaCl at a concentration of 1 to 2 mg/mL and administered over 5 to 60 minutes. Do not dilute to concentrations below 1 mg/mL [see How Supplied/Storage and Handling (16.2)]. Venoter treatment may be repeated if necessary. The dosing for iron replacement treatment in pediatric patients with HDD-CKD has not been established.

The dosing for non replacement reatment in pediatric patients with NDD-CKD has not been established.
 Pediatric Patients (2 Years of Age and Older) with NDD-CKD or PDD-CKD who are on Erythropoietin Therapy for Iron Maintenance Treatment
 For iron maintenance treatment: Administer Venofer at a dose of 0.5 mg/kg, not to exceed 100 mg per dose, every four weeks for 12 weeks given undiluted
 by slow intravenous injection over 5 minutes or diluted in 0.9% NaCl at a concentration of 1 to 2 mg/mL and administered over 5 to 60 minutes. Do not
 dilute to concentrations below 1 mg/mL [see How Supplied/Storage and Handling (16.2)]. Venofer treatment may be repeated if necessary.
 The dosing for iron replacement treatment in pediatric patients with NDD-CKD or PDD-CKD has not been established.

DOSAGE FORMS AND STRENGTHS

Injection: 50 mg/2.5 mL, 100 mg/5 mL, or 200 mg/10 mL (20 mg/mL) in single-dose vials.

CONTRAINDICATIONS

Known hypersensitivity to Venofer WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity reactions Serious hypersensitivity reactions, including anaphylactic-type reactions, some of which have been life-threatening and fatal, have been reported in patients receiving Venofer. Patients may present with shock, clinically significant hypotension, loss of consciousness, and/or collapse. If hypersensitivity reactions or signs of intolerance occur during administration, stop Venofer immediately. Monitor patients for signs and symptoms of hypersensitivity reactions after Venofer administration for at least 30 minutes and until clinically stable following completion of the infusion. Only administer Venofer when personnel and therapies are immediately available for the treatment of serious hypersensitivity reactions. Most reactions associated with intravenous iron preparations occur within 30 minutes of the completion of the infusion [see Adverse Reactions (6.1 and 6.2)].

5.2 Hypotension venore may basise eliminative approximation of provide address and a second address and a second address and address and a second address and addr autions (5.1), and Adverse Reactions (6.2)]. and Pre

Iron Overload 5.3

Excessive therapy with parenteral iron can lead to excess storage of iron with the possibility of iatrogenic hemosiderosis. All adult and pediatric patients receiving Venofer require periodic monitoring of hematologic and iron parameters (hemoglobin, hematocrit, serum ferritin and transferrin saturation). Do not administer Venofer to patients with evidence of iron overload. Transferrin saturation (TSAT) values increase rapidly after intravenous administration of iron sucrose; do not perform serum iron measurements for at least 48 hours after intravenous dosing [see Dosage and Administration (2) and Overdosage (10)]

ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling: Hypersensitivity Reactions [see Warnings and Precautions (5.1)] Hypotension [see Warnings and Precautions (5.2)] Iron Overload [see Warnings and Precautions (5.3)]

Adverse Reactions in Clinical Trials 6.1

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug may not reflect the rates observed in practice. Adverse Reactions in Adult Patients with CKD

The frequency of adverse reactions associated with the use of Venofer has been documented in six clinical trials involving 231 patients with HDD-CKD. The negative of various consistence of the product period of 4 weeks

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CLINICAL PHARMACOLOGY

Mechanism of Actio Pharmacodynamics

- Dependent-Chronic Kidney Disease (HDD-CKD
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- 14.5
- Study E: Peritoneal Dialysis Dependent-Chronic Kidney Disease (PDD-CKD) Study F: Iron Maintenance Treatment Dosing in Pediatric Patients Ages 2 Years and Older with Chronic Kidney Disease

- * Sections or subsections omitted from the full prescribing information are not listed

Table 1. Adverse Reactions Reported in $\ge 2\%$ of Study Populations and for which the Rate for Venofer Exceeds the Rate for Comparator

	HDD-CKD	NDD	-CKD	PDD	-CKD
Body System/Adverse Reactions	Venofer	Venofer	Oral Iron	Venofer	EPO* Only
bouy system/Auverse meachons	(N=231)	(N=139)	(N=139)	(N=75)	(N=46)
	%	%	%	%	%
Subjects with any adverse reaction	78.8	76.3	73.4	72.0	65.2
Ear and Labyrinth Disorders					
Ear Pain	0	2.2	0.7	0	0
Eye Disorders					
Conjunctivitis	0.4	0	0	2.7	0
Gastrointestinal Disorders					
Abdominal pain	3.5	1.4	2.9	4.0	6.5
Diarrhea	5.2	7.2	10.1	8.0	4.3
Dysgeusia	0.9	7.9	0	0	0
Nausea	14.7	8.6	12.2	5.3	4.3
Vomiting	9.1	5.0	8.6	8.0	2.2
General Disorders and					
Administration Site Conditions					
Asthenia	2.2	0.7	2.2	2.7	0
Chest pain	6.1	1.4	0	2.7	0
Feeling abnormal	3.0	0	0	0	0
Infusion site pain or burning	0	5.8	Ő	Ő	Ő
Injection site extravasation	0	2.2	0	Ő	ŏ
Peripheral edema	2.6	7.2	5.0	5.3	10.9
Pyrexia	3.0	0.7	0.7	1.3	0
Infections and Infestations	0.0	0.7	0.1	1.0	Ŭ
Nasopharyngitis, Sinusitis, Upper					
respiratory tract infections, Pharyngitis	2.6	2.2	4.3	16.0	4.3
Injury, Poisoning and Procedural	2.0	2.2	4.0	10.0	4.0
Complications					
Graft complication	9.5	1.4	0	0	0
	9.0	1.4	0	U	0
Metabolism and Nutrition Disorders	3.0		0.7	1.3	0
Fluid overload		1.4	•		-
Gout	0	2.9	1.4	0	0
Hyperglycemia	0	2.9	0	0	2.2
Hypoglycemia	0.4	0.7	0.7	4.0	0
Musculoskeletal and Connective					
Tissue Disorders					
Arthralgia	3.5	1.4	2.2	4.0	4.3
Back pain	2.2	2.2	3.6	1.3	4.3
Muscle cramp	29.4	0.7	0.7	2.7	0
Myalgia	0	3.6	0	1.3	0
Pain in extremity	5.6	4.3	0	2.7	6.5
Nervous System Disorders					
Dizziness	6.5	6.5	1.4	1.3	4.3
Headache	12.6	2.9	0.7	4.0	0
Respiratory, Thoracic and					
Mediastinal Disorders					
Cough	3.0	2.2	0.7	1.3	0
Dyspnea	3.5	5.8	1.4	1.3	2.2
Nasal congestion	0	1.4	2.2	1.3	0
Skin and Subcutaneous					
Tissue Disorders					
Pruritus	3.9	2.2	4.3	2.7	0
Vascular Disorders					-
Hypertension	6.5	6.5	4.3	8.0	6.5
Hypotension	39.4	2.2	0.7	2.7	2.2
пуровлаюн	03.4	2.2	0.7	2.1	2.2

* EPO=Ervthropoietir

One hundred thirty (11%) of the 1,151 patients evaluated in the 4 U.S. trials in HDD-CKD patients (studies A, B and the two post marketing studies) had prior other intravenous iron therapy and were reported to be intolerant (defined as precluding further use of that iron product). When these patients were treated with Venofer there were no occurrences of adverse reactions that precluded further use of Venofer [see Warning and Precautions (5)].

14.6 14.7 HOW SUPPLIED/STORAGE AND HANDLING 16

OVERDOSAGE

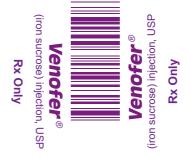
DESCRIPTION

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- 16.1 How Supplied16.2 Stability and Storage
- 17 PATIENT COUNSELING INFORMATION



Adverse Reactions in Pediatric Patients with CKD (ages 2 years and older) In a randomized, open-label, dose-ranging trial for iron maintenance treatment with Venofer in pediatric patients with CKD on stable erythropoietin therapy [see Clinical Studies (14.7)], at least one adverse reaction was experienced by 57% (27/47) of the patients receiving Venofer 0.5 mg/kg, 53% (25/47) of the patients receiving Venofer 1 mg/kg, and 55% (26/47) of the patients receiving Venofer 2 mg/kg.

A total of 5 (11%) subjects in the Venoter 0.5 mg/kg group, 10 (21%) patients in the Venoter 1 mg/kg group, and 10 (21%) patients in the Venofer 2 mg/kg group experienced at least 1 serious adverse reaction during the study. The most common adverse reactions (>2% of patients) in all patients were headache (6%), respiratory tract viral infection (4%), perinting (4%), portivid (4%), dizziness (4%), cough (4%), nausea (3%), arteriovenous fistula thrombosis (2%), hypotension (2%), and hypertension (2.1%).

6.2 Adverse Reactions from Post-Marketing Experience The following adverse reactions have been identified during post-approval use of Venofer. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. In the post-marketing safety studies in 1,051 treated patients with HDD-CKD, the adverse reactions reported by >1% were cardiac failure congestive, sepsis

and dysgeusia. Immune system disorders: anaphylactic-type reactions, angioedema

Psychiatric disorders: confusion Nervous system disorders: convulsions, collapse, light-headedness, loss-of-consciousness

- Cardiac disorders: bradycardia
- Vascular disorders: shock Respiratory, thoracic and mediastinal disorders: bronchospasm, dyspnea

Musculoskeletal and connective tissue disorders: back pain, swelling of the joints

Renal and urinary disorders: chromaturia General disorders and administration site conditions: hyperhidrosis

Symptoms associated with Venofer total dosage or infusing too rapidly included hypotension, dyspnea, headache, vomiting, nausea, dizziness, joint aches, paresthesia, abdominal and muscle pain, edema, and cardiovascular collapse. These adverse reactions have occurred up to 30 minutes after the administration of Venofer injection. Reactions have occurred following the first dose or subsequent doses of Venofer. Symptoms may respond to intravenous fluids, hydrocortisone, and/or antihistamines. Slowing the infusion rate may alleviate symptoms.

Injection site discoloration has been reported following extravasation. Assure stable intravenous access to avoid extravasation

DRUG INTERACTIONS

Venofer may reduce the absorption of concomitantly administered oral iron preparations.

8 USE IN SPECIFIC POPULATIONS

Pregnancy

8.1 Pregnancy Risk Summary Published studies on intravenous iron sucrose treatment after the first trimester of pregnancy have not shown adverse maternal or fetal outcomes (see Data). Available reports of intravenous iron sucrose use in pregnant women during the first trimester are insufficient to assess the risk of major birth defects and miscarriage. There are risks to the mother and fetus associated with untreated IDA in pregnancy as well as risks to the first state associated with maternal severe hypersensitivity reactions (see Clinical Considerations). Animal reproduction studies of iron sucrose administered to rats and rabbits during the period of organogenesis at elemental iron doses equivalent to the maximur ecommended human dose based on body surface area revealed on evidence of harm to the fetus (see Data). The estimated background risk of major birth defects and miscarriage for the indicated populations is unknown. Adverse outcomes in pregnancy occur regardless of the health of the mother or the use of medications. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically-recognized pregnancies is 2-4% and 15-20%, respectively.

<u>Clinical Considerations</u> Disease-associated maternal and/or embryo/fetal risk Iron deficiency anemia during pregnancy should be treated. Untreated IDA in pregnancy is associated with adverse maternal outcomes such as post-partum anemia. Adverse pregnancy outcomes associated with IDA include increased risk for preterm delivery and low birth weight. Fetal/Neonatal adverse reactions

Severe adverse reactions including circulatory failure (severe hypotension, shock including in the context of anaphylactic reaction) may occur in pregnant women with parenteral iron products (such as Venofer) which may cause fetal bradycardia, especially during the second and third trimester

Data Human Data

Published data from randomized controlled studies and prospective observational studies on the use of Venofer in pregnant women have not reported an association of Venofer and adverse developmental outcomes. However, these studies did not include women exposed during the first trimester of pregnancy and were not designed to assess the risk of major birth defects. Maternal adverse events reported in these studies are similar to those reported during clinical trials in adult males and non-pregnant females [see Adverse Reactions (6.1)]

Animal Data Iron sucrose was administered intravenously to rats and rabbits during the period of organogenesis at elemental iron doses up to 13 mg/kg/day (0.25 times or equivalent to the maximum recommended human dose based on body surface area, respectively) and revealed no evidence of harm to the fetus. Lactation 8.2

8.2 Lateration Bick Summary Iron sucrose is present in human milk, and available published reports following exposure to 100-300 mg intravenous iron sucrose have not reported adverse reactions in breastfed infants (see Data). There are no data on the effects on milk production. The developmental and health benefits of breastfeeding should be considered, along with the mother's clinical need for Venofer and any potential adverse effects on the breastfed child from Venofer or from the transferred condition.

Data A published study showed no difference in iron concentration in the colostrum of 10 iron deficient breastfeeding women who were 2 to 3 days postpartum and received a single dose of 100 mg of intravenous iron sucrose compared to 5 breastfeeding women who received no iron. These results may underestimate the amount of iron in breastmilk following the standard dose of Venofer.

A published report of 78 breastfeeding women who received 300 mg of intravenous iron sucrose over 3 days (infant age not reported) did not report on the safety of iron sucrose in breastfed infants; however adverse reactions in breastfed infants were not reported.

<u>Clinical Considerations</u> Monitor breastfed infants for gastrointestinal toxicity (constipation, diarrhea). Pediatric Use

Safety and effectiveness of Venofer for iron replacement treatment in pediatric patients with dialysis-dependent or non-dialysis-dependent CKD have not been established.

Safety and effectiveness of Venofer for iron maintenance treatment in pediatric patients 2 years of age and older with dialysis-dependent or non-dialysis-dependent CKD receiving erythropoietin therapy were studied. Venofer at doses of 0.5 mg/kg, 1 mg/kg, and 2 mg/kg was administered. All three doses maintained hemoglobin between 10.5 g/dL and 14.0 g/dL in about 50% of subjects over the 12-week treatment period with stable EPO dosing [see Clinical Studies (14.7)].

Venofer has not been studied in patients younger than 2 years of age.

In a country where Venofer is available for use in children, at a single site, five premature infants (weight less than 1,250 g) developed necrotizing enterocolitis and two of the five died during or following a period when they received Venofer, several other medications and erythropoietin. Necrotizing enterocolitis may be a complication of prematurity in very low birth weight infants. No causal relationship to Venofer or any other drugs could be established.

8.5 Geratric Use Of the 1,051 patients in two post-marketing safety studies of Venofer, 40% were 65 years and older. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the eldery and younger patients, but greater sensitivity of some older individuals cannot be ruled out. In general, dose administration to an elderly patient should be cautious, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy. 10 OVERDOSAGE

No data are available regarding overdosage of Venofer in humans. Excessive dosages of Venofer may lead to accumulation of iron in storage sites potentially leading to hemosiderosis. Do not administer Venofer to patients with iron overload *(see Warnings and Precautions (5.3))*. Venofer is not dialyzable through CA210 (Baxter) High Efficiency or Fresenius F80A High Flux dialysis membranes.

Toxicities in single-dose studies in misce and rask, at increasing and adapted minimum. Toxicities in single-dose studies in misce and rask, at increasing and access up to 8 times the maximum recommended human dose based on body surface area, included sedation, hypoactivity, pale eyes, bleeding in the gastrointestinal tract and lungs, and mortality. 11 DESCRIPTION

Venofer (iron sucrose injection, USP), an iron replacement product, is a brown, sterile, aqueous, complex of polynuclear iron (III)-hydroxide in sucrose for intravenous use. Iron sucrose injection has a molecular weight of approximately 34,000 to 60,000 daltons and a proposed structural formula:

 $[Na_2Fe_5O_8(OH) \bullet 3(H_2O)]_n \bullet m(C_{12}H_{22}O_{11})$ where: n is the degree of iron polymerization and m is the number of sucross molecules associated with the iron (III)-hydroxide

Each mL contains 20 mg elemental iron as iron sucrose in water for injection. Venofer is available in 10 mL single-dose vials (200 mg elemental iron per 10 mL), 5 mL single-dose vials (200 mg elemental iron per 2.5 mL). The drug product contains approximately 30% sucrose w/v (300 mg/mL) and has a pH of 10.5 to 11.1. The product contains no preservatives. The osmolarity of the injection is 1,250 mOsmol/L.

CLINICAL PHARMACOLOGY

Mechanism of Action Venofer is an aqueous complex of poly-nuclear iron (III)-hydroxide in sucrose. Following intravenous administration, Venofer is dissociated into iron and sucrose and the iron is transported as a complex with transferrin to target cells including erythroid precursor cells. The iron in the precursor cells is incorporated into hemoglobin as the cells mature into red blood cells.

12.2 Pharmacodynamics Following intravenous administration, Venofer is dissociated into iron and sucrose. In 22 patients undergoing hemodialysis and receiving erythropoietin (recombinant human erythropoietin) therapy treated with iron sucrose containing 100 mg of iron, three times weekly for three weeks, significant increases serum iron and serum ferritin and signif cant decreases in total iron binding ca acity occurred four weeks from t ucrose tre Pharmacokinetics

In healthy adults administered intravenous doses of Venofer, its iron component exhibited first order kinetics with an elimination half-life of 6 h, total clearance of 1.2 L/h, and steady state apparent volume of distribution of 7.9 L. The iron component appeared to distribute mainly in blood and to some extent in extravascular fluid. A study evaluating Venofer containing 100 mg of iron labeled with ⁵²Fe/⁵⁹Fe in patients with iron deficiency showed that a significant amount of the administered iron is distributed to the liver, spleen and bone marrow and that the bone marrow is an irreversible iron trapping compartment

Following intra administration of Venofer, iron sucrose is dissociated into iron and sucrose. The sucro excretion. In a study evaluating a single intravenous dose of Venofer containing 1,510 mg of sucrose and 100 mg of iron in 12 healthy adults (9 female, 3 male: age range 32 to 52), 68.3% of the sucrose was eliminated in urine in 4 h and 75.4% in 24 h. Some iron was also eliminated in the urine. Neither transferrin nor transferrin receptor levels changed immediately after the dose administration. In this study and another study evaluating a single intravenous dose of iron sucrose containing 500 to 700 mg of iron in 26 patients with anemia on erythropoietin therapy (23 female, 3 male; age range 16 to 60), approximately 5% of the iron was eliminated in urine in 24 h at each dose level. The effects of age and gender on the pharmacokinetics of Venofer have not been studied.

Pharmacokinetics in Pediatric Patients

In a single-dose PK study of Venofer, patients with NDD-CKD ages 12 to 16 (N=11) received intravenous bolus doses of Venofer at 7 mg/kg (maximum 200 mg) administered over 5 minutes. Following a single dose of Venofer, the half-life of total serum iron was 8 hours. The mean C_{max} and AUC values were 8545 µg/dL and 31305 hr µg/dL, respectively, which were 1.42- and 1.67-fold higher than dose adjusted adult C_{max} and AUC values. Venofer is not dialyzable through CA210 (Baxter) High Efficiency or Fresenius F80A High Flux dialysis membranes. In *in vitro* studies, the amount of iror sucrose in the dialysate fluid was below the levels of detection of the assay (less than 2 parts per million).

NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility rnse

genicity studies have not been performed with iron su

Iron sucrose was not mutagenic *in vitro* in the bacterial reverse mutation assay (Ames test) or the mouse lymphoma assay. Iron sucrose was not clastogenic in the *in vitro* chromosome aberration assay using human lymphocytes or in the *in vivo* mouse micronucleus assay. Iron success at intravenous doses up to 15 mg/kg/day of elemental iron (1.2 times the maximum recommended human dose based on body surface area) had no effect on fertility and reproductive function of male and female rats.

14 CLINICAL STUDIES

14.1 Clinical Studies Overview Five clinical trials involving 647 adult patients and one clinical trial involving 131 pediatric patients were conducted to assess the safety and efficacy of Venofer.

Venore.
14.2 Study A: Hemodialysis Dependent-Chronic Kidney Disease (HDD–CKD)
Study A was a multicenter, open-label, historically-controlled study in 101 patients with HDD-CKD (77 patients with Venofer treatment and 24 in the historical control group) with IDA. Eligibility criteria for Venofer treatment included patients undergoing chronic hemodialysis, receiving erythropoietin, hemoglobin level between 8.0 and 11.0 g/dL, transferrin saturation -20%, and serum ferritin -300 ng/mL. The mean age of the patients was 65 years with the age range of 31 to 85 years. Of the 77 patients, 44 (57%) were male and 33 (43%) were female.

Venofer 100 mg was administered at 10 consecutive dialysis sessions either as slow injection or a slow infusion. The historical control population consisted of 24 patients with similar ferritin levels as patients treated with Venofer, who were off intravenous iron for at least 2 weeks and who had received erythropoietin therapy with hematocrit averaging 31 to 36 for at least two months prior to study entry. The mean age of patients in thistorical control group was 56 years, with an age range of 29 to 80 years. Patient age and serum ferritin level were similar between treatment and historical control patients. Patients in the Venofer treated population showed a greater increase in hemoglobin and hematocrit than did patients in the historical control population. See Table 2

Table 2. Changes from Baseline in Hemoglobin and Hematocrit

Efficacy parameters	End of treatment		2 week follow-up		5 week follow-up	
	Venofer (n=69)	Historical Control (n=18)	Venofer (n=73)	Historical Control (n=18)	Venofer (n=71)	Historical Control (n=15)
Hemoglobin (g/dL)	1.0 ± 0.12**	0.0 ± 0.21	1.3 ± 0.14**	-0.6 ± 0.24	1.2 ± 0.17*	-0.1 ± 0.23
Hematocrit (%)	3.1 ± 0.37**	-0.3 ± 0.65	3.6 ± 0.44**	-1.2 ± 0.76	3.3 ± 0.54	0.2 ± 0.86
**p < 0.01 and *p < 0.05 compared to historical control from ANCOVA analysis with baseline hemoglobin, serum ferritin and erythropoietin dose as covariates						

Serum ferritin increased at endpoint of study from baseline in the Venofer-treated population (165.3 ± 24.2 ng/mL) compared to the historical control population (-27.6 ± 9.5 ng/mL). Transferrin saturation also increased at endpoint of study from baseline in the Venofer-treated population ($8.8 \pm 1.6\%$) compared to this historical control population ($-5.1 \pm 4.3\%$).

14.3 Study B: Hemodialysis Dependent-Chronic Kidney Disease (HDD-CKD) Study B was a multicenter, open label study of Venofer in 29 patients with iron deficiency and HDD-CKD who had been discontinued from iron dextran due to intolerance. Eligibility criteria were otherwise identical to Study A. The mean age of the patients in this study was 53 years, with ages ranging from 21 to 79 years. Of the 23 patients enrolled in the study, 10 (44%) were male and 13 (56%) were female.

21 rol 9 years of the 25 patients entoied in the study, to (44 m) were mate and to (50 m) were related. All 23 enrolled patients were evaluated for efficacy. Increases in mean hemoglobin (1.1 \pm 0.2 g/dL), hematocrit (3.6 \pm 0.6%), serum ferritin (266.3 \pm 30.3 ng/mL) and transferrin saturation (8.7 \pm 2.0%) were observed from baseline to end of treatment.

(2b6.3 ± 30.3 fg/mL) and transferrin saturation (8.7 ± 2.0%) were observed from baseline to end of the readment. **14.4** Study C: Hemodialysis Dependent-Chronic Kidney Disease (HDD-CKD) Study C was a multicenter, open-label study in patients with HDD-CKD. This study enrolled patients with a hemoglobin \leq 10 g/dL, a serum transferrin saturation \leq 20%, and a serum ferritin \leq 200 ng/mL, who were undergoing maintenance hemodialysis 2 to 3 times weekly. The mean age of the patients enrolled in this study was 41 years, with ages ranging from 16 to 70 years. Of 130 patients evaluated for efficacy in this study, 68 (52%) were male and 62 (48%) were female. Forty-eight percent of the patients had previously been treated with oral iron. Exclusion criteria were similar to those in studies A and B. Venofer was administered in doses of 100 mg during sequential dialysis essions until a pre-determined (calculated) total dose of iron was administered. A 50 mg dose (2.5 mL) was given to patients within two weeks of study entry as a test dose. Twenty-seven patients (20%) were receiving erythropoietin treatment at study entry and they continued to receive the same erythropoietin dose for the duration of the study.

The modified intention-to-treat (mITT) population consisted of 131 patients. Increases from baseline in mean hemoglobin (1.7 g/dL), hematocrit (5%), serum ferrifin (434.6 ng/mL), and serum transferrin saturation (14%) were observed at week 2 of the observation period and these values remained increased at week 4 of the observation period.

14.5 Study D: Non-Dialysis Dependent-Chronic Kidney Disease (NDD-CKD)

14.5 Study D: Non-Dialysis Dependent-Chronic Kidney Disease (NDU-CKD) Study D (NCT00236977) was a randomized, open-label, multicenter, active-controlled study of the safety and efficacy of oral iron versus Venofer in patients with NDD-CKD with or without erythropoietin therapy. Erythropoietin therapy was stable for 8 weeks prior to randomization. In the study 188 patients with NDD-CKD, hemoglobin of ≤ 11.0 g/dL, transferrin saturation $\leq 25\%$, ferritin ≤ 300 ng/mL were randomized to receive oral iron (325 mg ferrous sulfate three times daily for 56 days); or Venofer (either 200 mg over 2 to 5 minutes 5 times within 14 days or two 500 mg infusions on Day 1 and Day 14, administered over 3.5 to 4 hours). The mean age of the 91 treated patients in the Venofer group was 61.6 years (range 25 to 86 years) and 64 years (range

A statistically significantly greater proportion of Venofer subjects (35/79; 44.3%) compared to oral iron subjects (23/82; 28%) had an increase in hemoglobin \geq 1 g/dL at anytime during the study (p = 0.03).

14.6 Study E: Peritoneal Dialysis Dependent-Chronic Kidney Disease (PDD-CKD)

14.6 Study E: Peritoneal Dialysis Dependent-Chronic Kidney Disease (PDD-CKD) Study E (NCT00236938) was a randomized, open-tabel, multicenter study comparing patients with PDD-CKD receiving an erythropoietin and intravenous iron to patients with PDD-CKD receiving an erythropoietin alone without iron supplementation. Patients with PDD-CKD, stable erythropoietin for 8 weeks, hemoglobin of \leq 11.5 g/dL, TSAT \leq 25%, ferritin \leq 500 ng/mL were randomized to receive either no iron or Venofer (300 mg in 250 mL 0.9% NACl over 1.5 hours on Day 1 and 15 and 400 mg in 250 mL 0.9% NACl over 2.5 hours on Day 29). The mean age of the 75 treated patients in the Venofer/ erythropoietin group was 51.9 years (range 21 to 81 years) vs. 52.8 years (range 23 to 77 years) for 46 patients in the erythropoietin alone (0.6 g/dL) (p < 0.01). A greater proportion of subjects who received erythropoietin alone (0.6 g/dL) (p < 0.01). A greater proportion of subjects who received erythropoietin in Ded uring the study compared to the subjects who received erythropoietin in 20 g/dL, the very time during the study compared to the subjects who received erythropoietin in Ded uring Network to Very erythropoietin was (3.3%).

(39.1 %) had an inclease in heinoglobin of 2 1 g/cL at any line during the study compared to the soujects who received erythropotent only (35.3%). **14.7** Study F: Iron Maintenance Treatment Dosing in Pediatric Patients Ages 2 Years and Older with Chronic Kidney Disease
Study F: (NCT00239642) was a randomized, open-label, dose-ranging study for iron maintenance treatment in pediatric patients with dialysis-dependent or non-dialysis-dependent CKD on stable erythropoietin therapy. The study randomized patients to one of three doses of Venofer (0.5 mg/kg, 1 mg/kg or 2 mg/kg). The mean age was 13 years (range 2 to 20 years). Over 70% of patients were 12 years or older in all three groups. There were 84 males and 61 females. About 60% of patients underwent hemodialysis and 25% underwent peritoneal dialysis in all three doses groups. At baseline, the mean hemoglobin was 12 g/dL, the mean TSAT was 33% and the mean ferritin was 300 ng/mL. Patients with HDD-CKD received Venofer once every other week for 6 dosen agence and a week for 2 dosen among 101 unelphole patients with HDD cKD received blog explores of the received the received the comparison of the patients with HDD cKD. for 6 doses. Patients with PDD-CKD or NDD-CKD received Venofer once every 4 weeks for 3 doses. Among 131 evaluable patients with stable erythropoietin dosing, the proportion of patients who maintained hemoglobin between 10.5 g/dL and 14.0 g/dL during the 12-week treatment period was 58.7%, 46.7%. and 45.0% in the Venofer 0.5 mg/kg, 1 mg/kg, and 2 mg/kg groups, respectively. A dose-response relationship was not demonstrated. HOW SUPPLIED/STORAGE AND HANDLING 16

Venofer is supplied sterile in 10 mL, 5 mL, and 2.5 mL single-dose vials. Each 10 mL vial contains 200 mg elemental iron, each 5 mL vial contains 100 mg elemental iron, and each 2.5 mL vial contains 50 mg elemental iron (20 mg/mL).

NDC-0517-2310-05	200 mg/10 mL Single-Dose Vial	Packages of 5
NDC-0517-2310-10	200 mg/10 mL Single-Dose Vial	Packages of 10
NDC-0517-2340-01	100 mg/5 mL Single-Dose Vial	Individually Boxed
NDC-0517-2340-10	100 mg/5 mL Single-Dose Vial	Packages of 10
NDC-0517-2340-25	100 mg/5 mL Single-Dose Vial	Packages of 25
NDC-0517-2325-10 NDC-0517-2325-25	50 mg/2.5 mL Single-Dose Vial	Packages of 10 Packages of 25

16.2 Stability and Storage Contains no preservatives. Store in original carton at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Contains no preservatives. Store in Room Temperature]. Do not freeze.

Syringe Stability: Venoter, when diluted with 0.9% NaCl at concentrations ranging from 2 mg to 10 mg of elemental iron per mL, or undiluted (20 mg elemental iron per mL) and stored in a plastic syringe, was found to be physically and chemically stable for 7 days at controlled room temperature (25°C ± 2°C) and under refrigeration (4°C ± 2°C).

Intravenous Admixture Stability: Venocer, when added to intravenous infusion bags (PVC or non-PVC) containing 0.9% NaCl at concentrations ranging from 1 mg to 2 mg of elemental iron per mL, has been found to be physically and chemically stable for 7 days at controlled room temperature (25°C ± 2°C)

Do not dilute to concentrations below 1 mg/mL

Do not mix Venofer with other medications or add to parenteral nutrition solutions for intravenous infusion.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to infusion. 17 PATIENT COUNSELING INFORMATION

Prio History of Reactions to Parenteral Iron Pi

Question patients regarding any prior history of reactions to parenteral iron products [see Warnings and Precautions (5)].

Advise patients to report any symptoms of hypersensitivity that may develop during and following Venofer administration, such as rash, itching, dizziness, light-headedness, swelling, and breathing problems [see Warnings and Precautions (5)]

AMERICAN REGENT. INC Shirley New York USA 11967

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